

~~Fig. 1~~ Fig. 1

12: BASE STATION APPARATUS
18(118, 218): TERMINAL APPARATUS

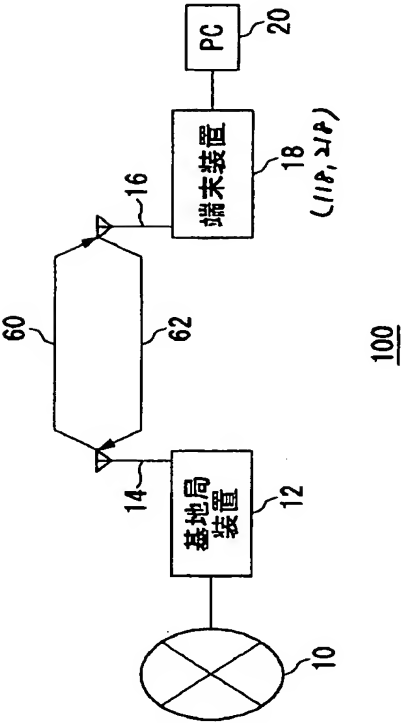


Fig. 2

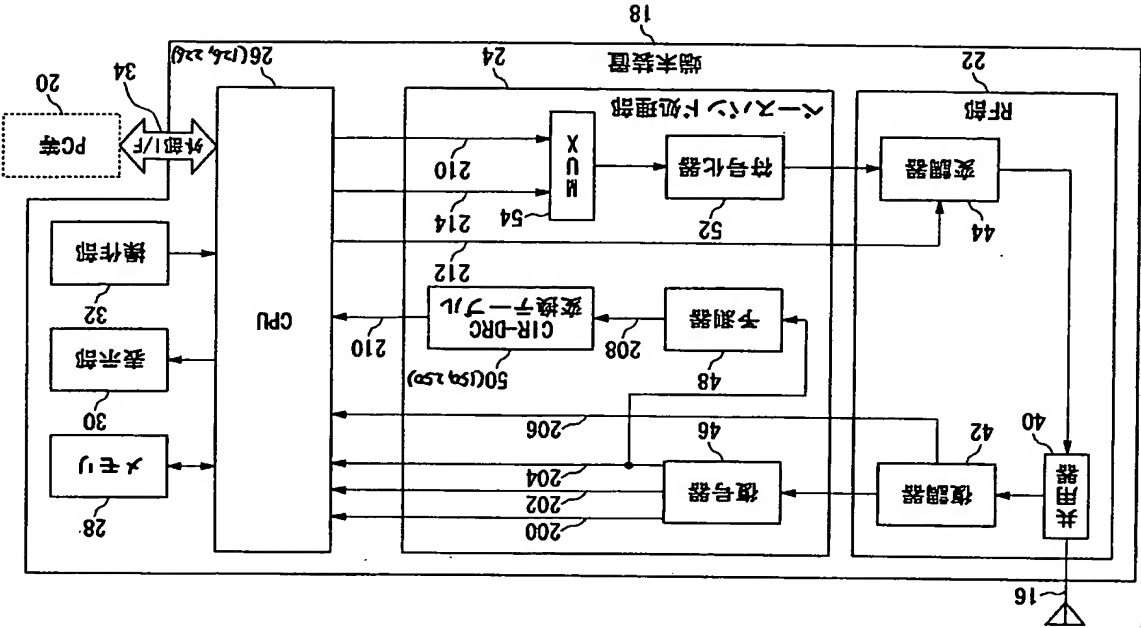


Fig. 2

18: TERMINAL APPARATUS

20: PC

22: RF UNIT

24: BASEBAND PROCESSING UNIT

28: MEMORY

30: DISPLAY UNIT

32: MANIPULATION UNIT

34: EXTERNAL IF

42: DEMODULATOR

44: MODULATOR

46: DECODER

48: PREDICTOR

50 (150, 250): CIR-DRC CONVERSION TABLE

52: CODER

3/18

~~Fig. 3~~ Fig. 3

| CIR (dB) | DRC (kbps) |
|----------|------------|
| -12.5 | 38.4 |
| -9.5 | 76.8 |
| -8.5 | 102.6 |
| -6.5 | 153.6 |
| -5.7 | 204.8 |
| -4.0 | 307.2 |
| -1.0 | 614.4 |
| 1.3 | 921.6 |
| 3.0 | 1228.8 |
| 7.2 | 1843.2 |
| 9.5 | 2457.6 |

Fig. 3

4/18

Fig. 4

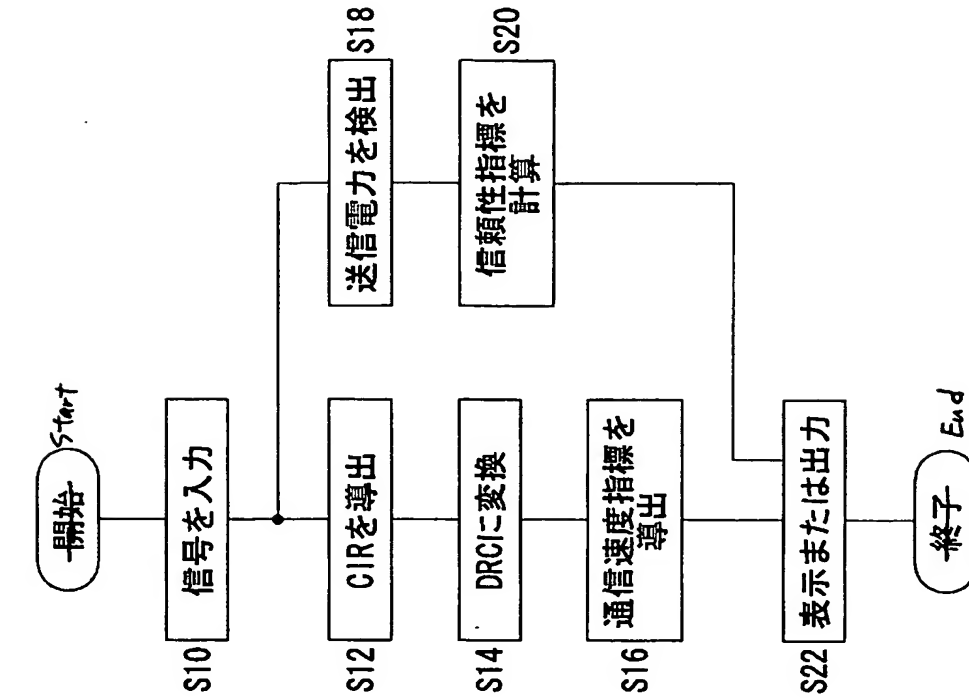


Fig. 4

S10: INPUT OF SIGNAL

S12: DERIVATION OF CIR

S14: CONVERSION INTO DRC

S16: DERIVATION OF COMMUNICATION RATE INDEX

S18: DETECTION OF TRANSMISSION POWER

S20: CALCULATION OF RELIABILITY INDEX

S22: DISPLAY OR OUTPUT

Fig. 5

- ① TRANSMISSION POWER VALUE (dBm) - [MAXIMUM]
- ② [TRANSMISSION POWER VALUE] - [MAXIMUM]
- TRANSMISSION POWER VALUE (dB)
- ③ INDEX VALUE

Fig. 5

| 送信電力値 [dBm] | (送信電力値-最大送信可能電力値) [dB] | 指標値 |
|-------------|------------------------|-----|
| +22.5~ | ~0.5 | 0 |
| +21.5~+22.5 | 0.5~1.5 | 1 |
| +20.5~+21.5 | 1.5~2.5 | 2 |
| | | |
| +3.5~+4.5 | 18.5~19.5 | 19 |
| ~+3.5 | 19.5~ | 20 |

Fig. 6A

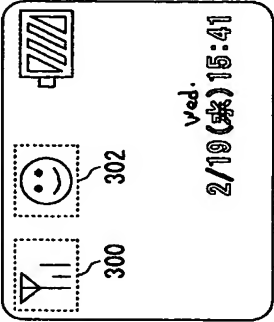
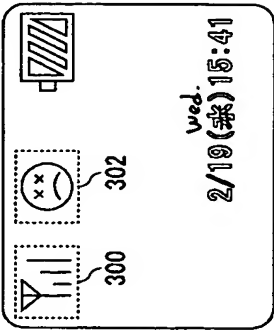
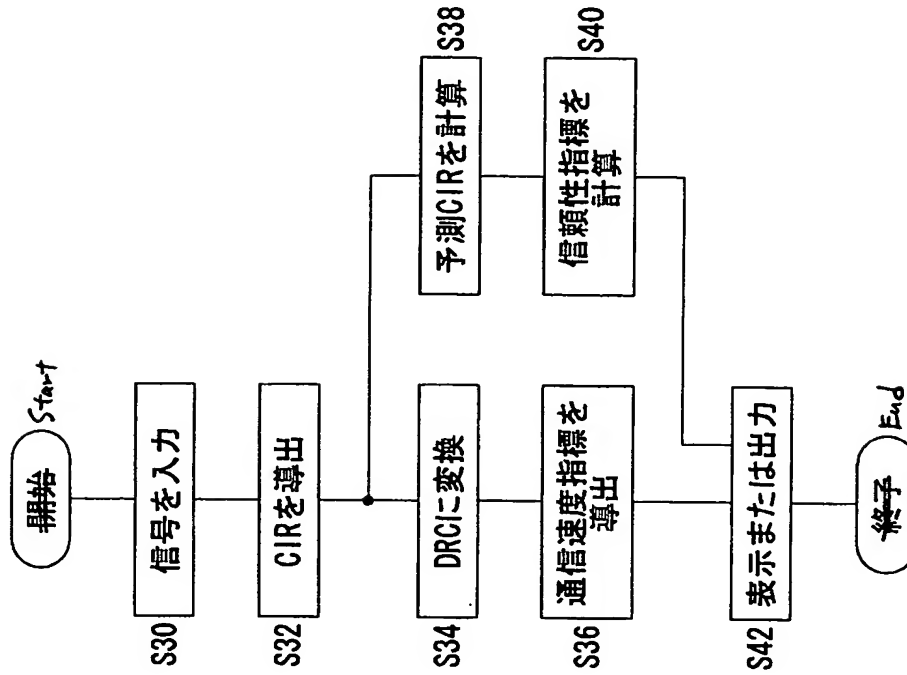


Fig. 6B



7/18

Fig. 8



- S30: INPUT OF SIGNAL
S32: DERIVATION OF CIR
S34: CONVERSION INTO DRC
S36: DERIVATION OF COMMUNICATION RATE INDEX
S38: CALCULATION OF PREDICTIVE CIR
S40: CALCULATION OF RELIABILITY INDEX
S42: DISPLAY OR OUTPUT

Fig. 9

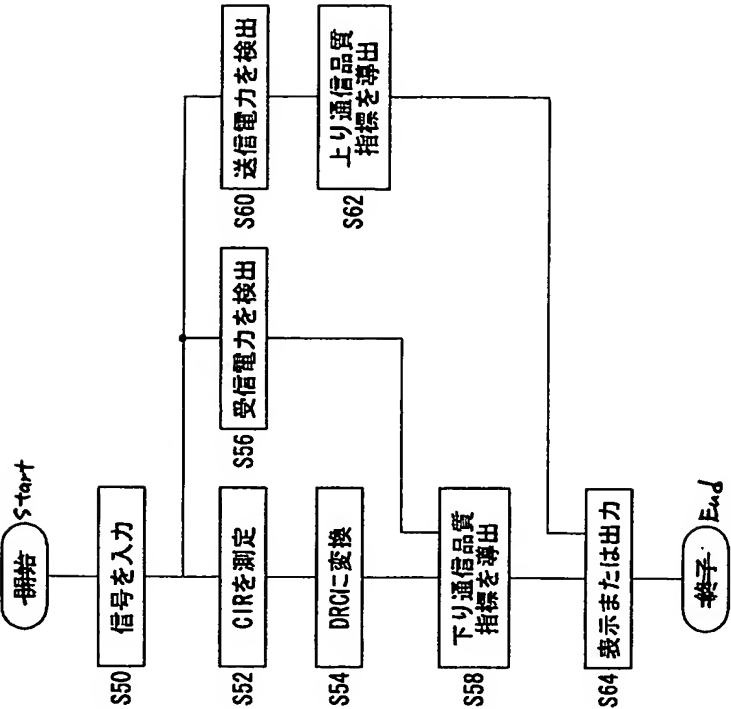


Fig. 9

S50: INPUT OF SIGNAL

S52: MEASUREMENT OF CIR

S54: CONVERSION INTO DRC

S56: DETECTION OF RECEPTION POWER

S58: DERIVATION OF DOWNSTREAM COMMUNICATION QUALITY INDEX

S60: DETECTION OF TRANSMISSION POWER

S62: DERIVATION OF UPSTREAM COMMUNICATION QUALITY INDEX

S64: DISPLAY OR OUTPUT

9/18

Fig. 10

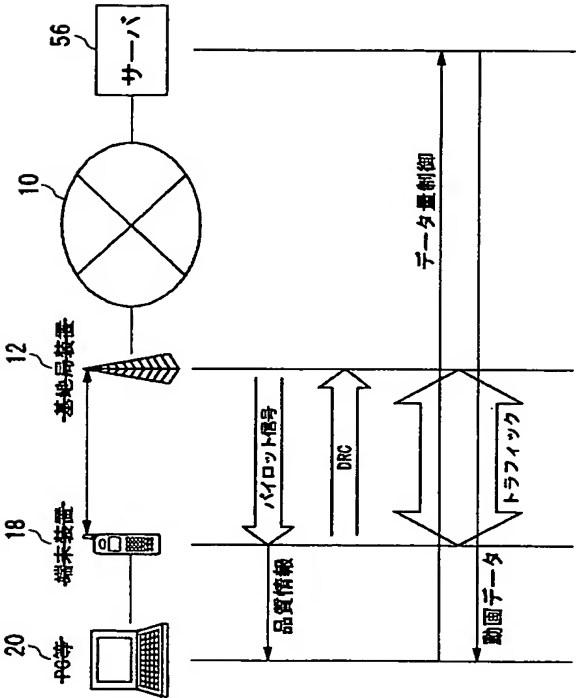
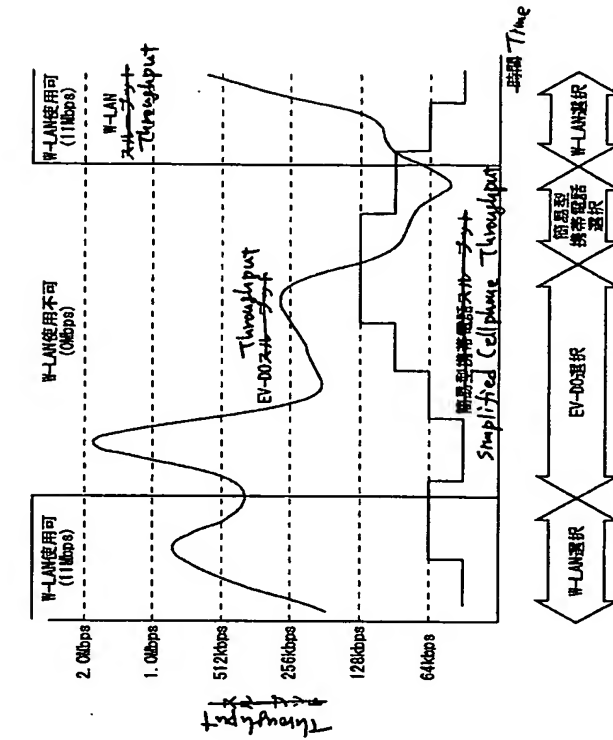


Fig. 10

- 56 SERVER
- ① QUALITY INFORMATION
- ② PILOT SIGNAL
- ③ MOVING PICTURE DATA
- ④ TRAFFIC
- ⑤ DATA AMOUNT CONTROL

10/18

Fig. 11



- ① W-LAN IS USABLE (11 Mbps)
- ② W-LAN IS NOT USABLE (0 Mbps)
- ③ W-LAN IS USABLE (11 Mbps)
- ④ W-LAN IS SELECTED
- ⑤ EV-DO IS SELECTED
- ⑥ SIMPLIFIED CELLPHONE IS SELECTED
- ⑦ W-LAN IS SELECTED

11/18

Fig. 12

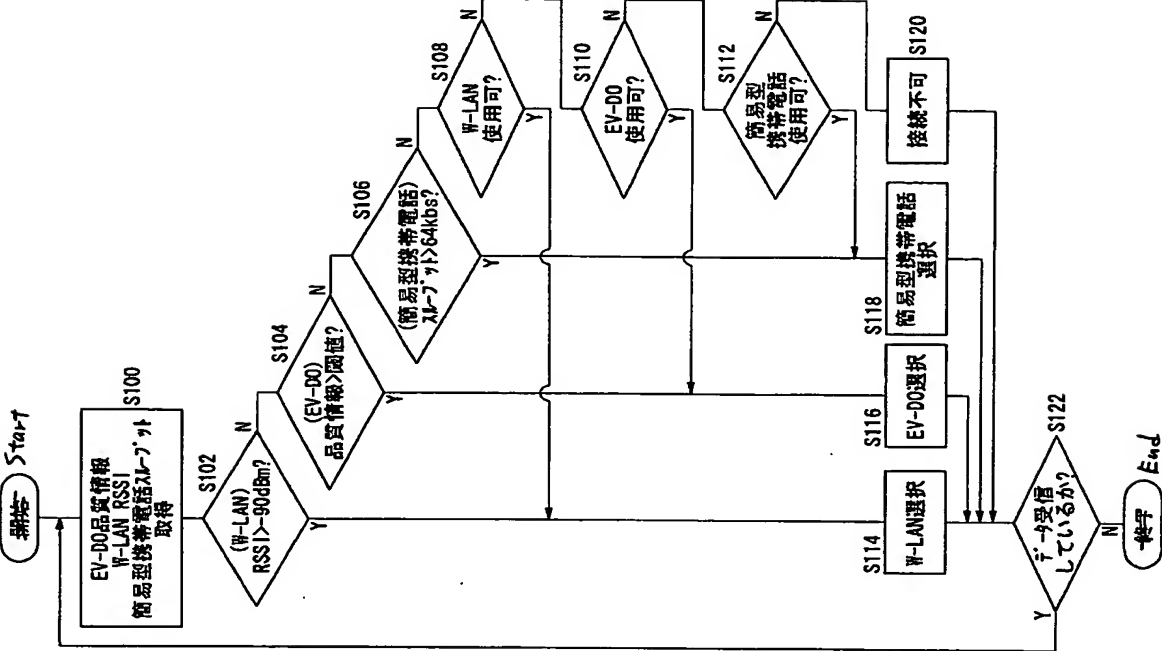


Fig. 12

S100: ACQUIRE QUALITY INFORMATION OF EV-DO, RSSI OF W-LAN, AND THROUGHPUT OF SIMPLIFIED CELLPHONE.

S102: RSSI > -90 dBm ? (W-LAN)

S104: QUALITY INFORMATION > THRESHOLDVALUE ? (EV-DO)

S106: THROUGHPUT > 64 kbps ? (SIMPLIFIED CELLPHONE)

S108: IS W-LAN USABLE?

S110: IS EV-DO USABLE?

S112: IS SIMPLIFIED CELLPHONE USABLE?

S114: SELECT W-LAN.

S116: SELECT EV-DO.

S118: SELECT SIMPLIFIED CELLPHONE.

S120: NO CONNECTION IS POSSIBLE.

S122: DATA ARE BEING RECEIVED?

図13 Fig. 13

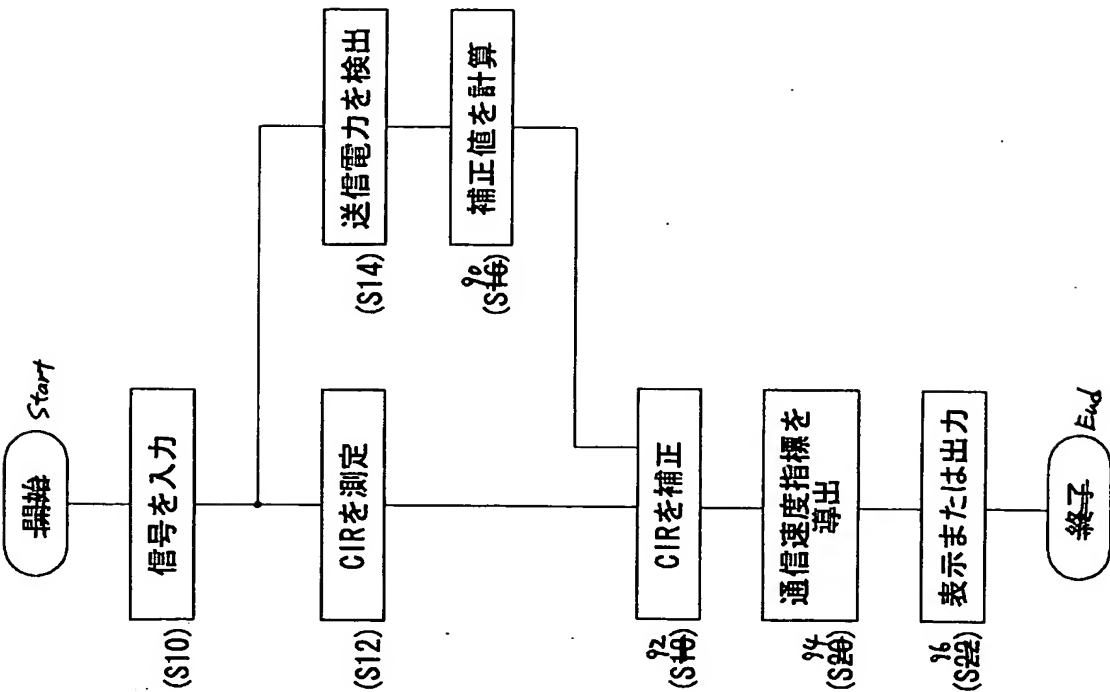


Fig. 13

- S10: INPUT OF SIGNAL
- S12: MEASUREMENT OF CIR
- S14: DETECTION OF TRANSMISSION POWER
- S16: CALCULATION OF CORRECTION VALUE
- S18: CORRECTION OF CIR
- S20: DERIVATION OF COMMUNICATION RATE INDEX
- S22: DISPLAY OR OUTPUT

Fig. 14

| | | |
|-------------|------------------------|----------|
| 送信電力値 [dBm] | (送信電力値-最大送信可能電力値) [dB] | 補正值 [dB] |
| +22.5~ | ~0.5 | -20 |
| +22.0~+22.5 | 0.5~1.0 | -19 |
| +21.5~+22.0 | 1.0~1.5 | -18 |
| | | |
| +13.0~+13.5 | 9.5~10.0 | -1 |
| ~+13.0 | 10~ | 0 |

- ①: TRANSMISSION POWER VALUE (dBm)
- ②: [TRANSMISSION POWER VALUE] - [MAXIMUM TRANSMISSIBLE POWER VALUE] (dB)
- ③: CORRECTION VALUE (dB)

Fig. 15

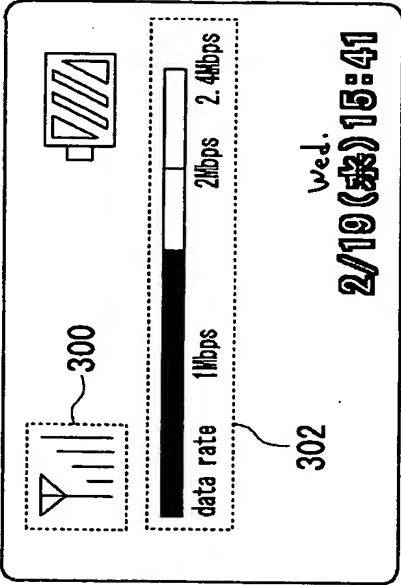
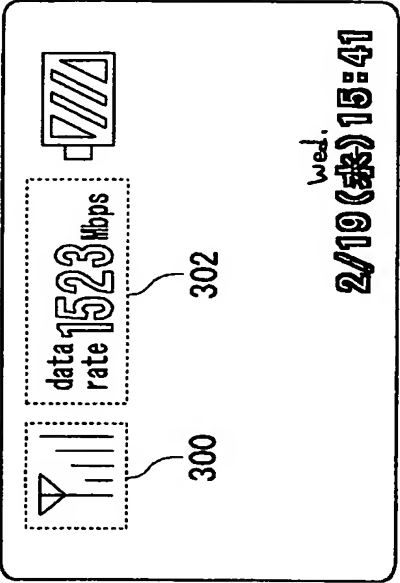


Figure 16

| | | | | |
|-----------|-------------------|-------------------|-------------------|-----------------|
| 速度指標 | LED表示 | 遅い (500kbps以下) | 中 (500k~1Mbps) | 速い (1Mbps以上) |
| 消灯 off | 点滅(1) Flashing | 点滅(2) Flashing | 点滅 ON | |

Fig. 16

- ①: LED INDICATION
- ②: COMMUNICATION RATE INDEX
- ③: SLOW (LOWER THAN 500 kbps)
- ④: MEDIUM (500 kbps TO 1 Mbps)
- ⑤: FAST (HIGHER THAN 1 Mbps)

Fig. 17

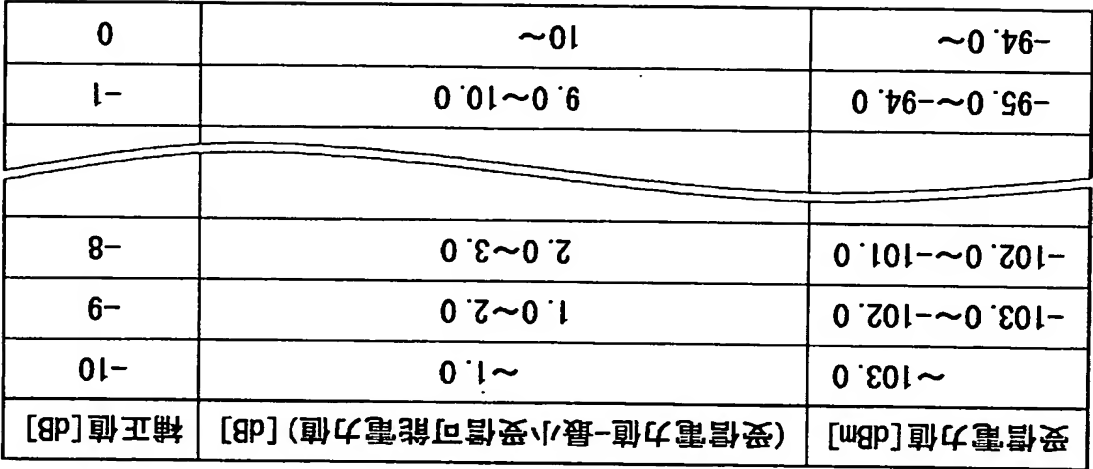


Fig. 17

- ①: RECEPTION POWER VALUE (dBm)
- ②: [RECEPTION POWER VALUE] - [MINIMUM RECEIVABLE POWER VALUE] (dB)
- ③: CORRECTION VALUE (dB)

Fig. 18

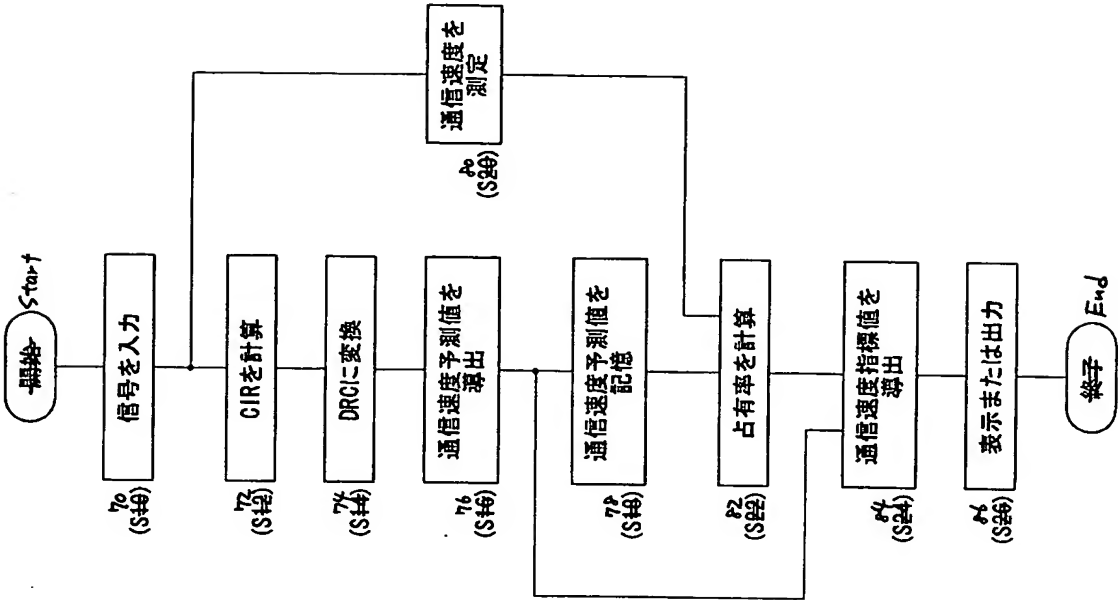


Fig. 18

- S70: INPUT OF SIGNAL
- S72: CALCULATION OF CIR
- S74: CONVERSION INTO DRC
- S76: DERIVATION OF PREDICTED COMMUNICATION RATE
- S78: STORAGE OF PREDICTED COMMUNICATION RATE
- S80: MEASUREMENT OF COMMUNICATION RATE
- S82: CALCULATION OF OCCUPATION RATIO
- S84: DERIVATION OF COMMUNICATION RATE INDEX
- S86: DISPLAY OR OUTPUT

18/18

Fig. 19
~~Fig. 19~~

| DRC value | Communication Rate | Packet Length |
|--------------|-----------------------|------------------|
| 0x0 | null rate | N/A |
| 0x1 | 38.4 | 16 |
| 0x2 | 76.8 | 8 |
| 0x3 | 153.6 | 4 |
| 0x4 | 307.2 | 2 |
| 0x5 | 307.2 | 4 |
| 0x6 | 614.4 | 1 |
| 0x7 | 614.4 | 2 |
| 0x8 | 921.6 | 2 |
| 0x9 | 1228.8 | 1 |
| 0xa | 1228.8 | 2 |
| 0xb | 1843.2 | 1 |
| 0xc | 2457.6 | 1 |
| 0xd | Invalid | N/A |
| 0xe | Invalid | N/A |
| 0xf | Invalid | N/A |